

March 2015
Monthly Update for the Green Chemistry in Education Network Julie Haack, University of Oregon
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Dear Members of the Green Chemistry Community,

Thank you for your submissions. Please remember to send me your position announcements so that we can post them on the Green Chemistry Education Network website (<http://cmetim.ning.com/>).

You can invite others to join this list by forwarding this email with the following instructions: To subscribe, please send an email request to jhaack@uoregon.edu with the subject heading "subscribe green chemistry." As always, please let me know if you would like to be removed from the list.

Quick Summary

TIME SENSITIVE

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- March 13, 2015 – Abstracts are due for the 19th Annual Green Chemistry and Engineering Conference

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- March 11-12, 2015 First annual Bioproducts AgSci Cluster Workshop, Ontario, Canada

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- Openings for Chemistry for PhD candidates and Postdoctoral Fellows at McGill University with Professor Robin Rogers

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- Journal of Chemical Education - 2015
 - *Identifying Passerini Products Using a Green, Guided-Inquiry, Collaborative Approach Combined with Spectroscopic Lab Techniques* - Matthew Serafin and Owen P. Priest
 - *Don't Forget the Workup* – Andrew Dicks

ADDITIONAL GREEN CHEMISTRY NEWS and INFORMATION

TIME SENSITIVE

March 6, 2015 - Applications are due for the ACS Summer School on Green Chemistry & Sustainable Energy: The ACS Summer School on Green Chemistry & Sustainable Energy will be held June 17-24, 2015, at the Colorado School of Mines in Golden, Colorado. The program is open to graduate students and postdoctoral scholars in the U.S., Canada, and Latin America. Participants will engage in lectures, problem-solving activities, and poster sessions focused on energy, green chemistry, and sustainability. Complete applications are due March 6, 2015. The Summer School is sponsored by the ACS Petroleum Research Fund. Additional information is available at <http://www.acs.org/content/acs/en/greenchemistry/students-educators/summerschool.html>.

March 13, 2015 – Abstracts are due for the 19th Annual Green Chemistry and Engineering Conference: Submit an abstract by March 13, 2015 for the 19th Annual Green Chemistry & Engineering Conference (GC&E), to be held July 14-16, 2015, in the Washington, DC metro area, by the ACS Green Chemistry Institute®.

This year's conference theme is "Catalyzing Innovations: Smarter research, greener design, better world." Share your innovations, insights, and strategies at the premiere conference for green chemistry & engineering, presented by the ACS GCI. If you are interested in submitting an abstract, take a look at this year's session themes to find your best fit. The 2015 conference highlights green chemistry and engineering's role in catalyzing innovation. Over three days, a wide array of topics will be covered—with 5 concurrent sessions every morning and afternoon plus a large poster session. Abstract submissions will close on March 13.

Visit the 2015 GC&E program page (<http://www.gcande.org/program/>) to review the list of symposium topics for this year's GC&E, and submit your abstract. Lets come together to share smarter research, greener design, and start building a better world!

Submit an Abstract: <http://www.gcande.org/program/>
Business Plan Competition applications due: http://www.gcande.org/program/business-plan-competition/?cid=em_gci_gci_2_23_15

Mach 13, 2015 – Deadline Extension for the Hancock and Breen green chemistry student awards: The deadline for the Hancock and Breen green chemistry student awards has been extended and we encourage everyone to spread the word. These awards will help a student attend this prestigious conference with little to no cost and are given the opportunity to present their research in front of the most important innovators in the green chemistry community. The deadline for these awards is now Mach 13, 2015.

The National Science Foundation (NSF) has provided a generous grant for students to travel and participate in this year's conference. Apply by March 13, 2015 for the NSF Student Travel Scholarship to receive up to \$1,000 in travel and registration fees. Applications due for student travel awards (Breen, Hancock, and NSF): <http://www.gcande.org/students/>

MEETINGS

March 11-12, 2015 First annual Bioproducts AgSci Cluster Workshop, Ontario, Canada: You are invited to participate in Bioindustrial Innovation Canada's (BIC) first annual BioProducts AgSci Cluster Workshop being held March 11-12 in Mississauga, Ontario.

Last September, BIC was awarded funding by Agriculture and Agri-Food Canada to lead the nationally focused BioProducts AgSci Cluster focused on commercially viable research and development of agriculture based bioproducts and the bioproducts supply chains from the farms to the end-markets. We hope you can join us in this bioeconomy initiative.

When: Wednesday, March 11 and Thursday March 12, 2015 (Two Days)

Where: Four Points By Sheraton Toronto Airport, 6257 Airport Road, Mississauga, ON N7T 7W6

Link for information is <http://www.bincanada.ca/index.php/events/100-march-11-12-2015->

[bioindustrial-innovation-canada-s-1st-annual-bioproducts-agsci-cluster-workshop.](#)

EMPLOYMENT OPPORTUNITIES

Openings for Chemistry for PhD candidates and Postdoctoral Fellows at McGill University with Professor Robin Rogers: McGill University, Montreal, QC, Canada has openings in Chemistry for PhD candidates and Postdoctoral Fellows with a focus on the design and development of new sustainable products which will both meet the needs of and stimulate the Canadian agricultural, forestry, fishing, mining, and energy sectors, while reducing the reliance on non-renewable resources. The positions will be associated with the laboratories of Prof. Robin D. Rogers, the newly appointed Canada Excellence Research Chair (CERC) in Green Chemistry and Green Chemicals. The CERC program is a tri-agency initiative supporting Canadian universities in their efforts to build Canada's growing reputation as an international leader in innovative research. The Rogers' Group efforts are focused on both developing next-generation sustainable products and technologies, and applying the concepts of sustainability in building new market opportunities for Canada. The research efforts are both fundamental and applied, with an emphasis on translating new safer chemical processes and biomaterial-based products into the economy.

Research interests include green chemistry, separation science, ionic liquids, X-ray diffraction, and crystal engineering. An emphasis is placed on utilizing ionic liquids and green chemistry for sustainable technology through innovation. Major thrusts include Materials: advanced polymeric and composite materials from biorenewables; Separations: Novel strategies for separation and purification of value added products from biomass; Energy: New lubricant technologies and selective separations; Medicine: Elimination of waste while delivering improved pharmaceutical performance.

Initial expressions of interest should be email to Robin.Rogers@McGill.ca

EDUCATION NEWS

Vera Kolb - Green Chemistry Certificate Available at The University of Wisconsin-Parkside: The Green Chemistry Certificate at The University of Wisconsin-Parkside will be available for Chemistry majors, minors, biology and pre-health majors (Group A), but also to the other, more general students' groups, as well as high school teachers who teach AP program, and various industry people, among others (Group B). For the Group A all that will be required is the Green Chemistry Lecture 230 (2 credits). These students already take Organic Laboratory 323 (3 credits), which is greened, and which satisfies the laboratory component of the Certificate. This laboratory has the usual prerequisites, namely general and organic chemistry (Chemistry 101 and 102, and 321 and 322). Students from Group B will require a background in chemistry (Chemistry 115 and 215). These background courses are general and organic/bio for non-majors; these courses include the labs, and are 4 credits each. In addition, Green Chemistry Lecture 230 (2 credits), and Green Chemistry Laboratory 231 (2 credits), will be required. Thus, for the Group B there are totally 12 credits required.

Journal of Chemical Education - 2015

- *Identifying Passerini Products Using a Green, Guided-Inquiry, Collaborative Approach Combined with Spectroscopic Lab Techniques* - Matthew Serafin and Owen P. Priest, Department of Chemistry, Northwestern University, 2145 Sheridan Road, Evanston,

Illinois 60208, United States
J. Chem. Educ., Article ASAP
DOI: 10.1021/ed5007184
Publication Date (Web): February 12, 2015
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The Passerini multicomponent reaction is a chemical reaction in which a carboxylic acid, an aldehyde, and an isocyanide react to form an α -acyloxy amide. The Passerini reaction can be carried out in water instead of traditional organic solvents, such as methylene chloride or MeOH, and the rate of this reaction is accelerated when carried out in water.

A green, guided-inquiry, collaborative experiment has been developed for the teaching lab where a series of Passerini reactions have been conducted in water while varying electron donating and withdrawing substituents on benzoic acids and benzaldehydes. The various combinations of reactants offer a valuable and environmentally friendly way to allow students in an undergraduate chemistry lab course to identify Passerini products through various spectroscopic techniques. The lab has been designed to be a guided-inquiry, puzzle experiment that students may work on in teams.

- *Don't Forget the Workup* – Andrew P. Dicks, Department of Chemistry, University of Toronto, Toronto, Ontario, Canada M5S 3H6
J. Chem. Educ., Articles ASAP (As Soon As Publishable)

Publication Date (Web): February 10, 2015 (Letter)
DOI: 10.1021/ed5008712
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Emphasis is placed on thoroughly considering the workup of a reaction used to promote principles of green chemistry to undergraduates.

SOCIAL MEDIA

ACS Green Chemistry Institute®

Blog: <http://bit.ly/ACSGCIblog>

Facebook page: <https://www.facebook.com/ACSGreenChemistryInstitute>

Twitter channel: <https://twitter.com/ACSGCI>

LinkedIn Group: <http://bit.ly/ACSGCIgroup>

YouTube Channel: <http://www.youtube.com/user/ACSGCInstitute/videos>

The Green Chemistry Network

LinkedIn: Green Chemistry Network (GCN) York

GreenCentre Canada

Facebook: GreenCentreCanada

Twitter: Green_Centre

LinkedIn: GreenCentreCanada

You Tube: GreenCentreCanada

Pinterest: GreenCentre

Flickr: GreenCentre Canada

Website: <http://www.greencentrecanada.com/> (where you can also link to all of the above mentioned social media platforms)

News: <http://www.greencentrecanada.com/news/>

Interactive Green Chemistry Google Map

<http://greenchem.uoregon.edu/Pages/MapDisplay.php>

ADDITIONAL GREEN CHEMISTRY NEWS and INFORMATION

The Green Chemistry & Commerce Council Quarterly e-Newsletter

URL: <http://www.greenchemistryandcommerce.org/publications/newsletters/>

From their website: "A publication of the Lowell Center for Sustainable Production at the University of Massachusetts Lowell. Each issue of the newsletter provides current information about upcoming and ongoing GC3 activities, and news about green chemistry and design for environment."

News from ACS GCI: Nexus Newsletter

URL: <http://www.acs.org/content/acs/en/greenchemistry/news.html>

The Nexus e-newsletter is published monthly by ACS GCI and is dedicated to connecting and expanding the global green chemistry and engineering community.

Advancing Green Chemistry

URL: <http://advancinggreenchemistry.org/newshighlights/>

From their website: "Our mission is to promote the development and adoption of Green Chemistry. Green Chemistry is the scientific foundation of greener products, a sustainable economy, and healthier people. AGC's role is to strengthen and promote the science and its practitioners, to link to strategic partners, and to highlight emerging opportunities for stakeholders. In short, AGC seeks to tip the balance in favor of broad support for – and wide adoption of – Green Chemistry."

Berkeley Center for Green Chemistry Newsletter

URL: <http://bcgc.berkeley.edu/bcgc-newsletter>

Green Centre Canada

URL: <http://www.greencentrecanada.com/news/>

From their website: "At GreenCentre Canada, we take a "hands on" approach to commercializing emerging Green Chemistry innovations originating from academia and industry. Our job is to transform these breakthroughs into green products, services, and industries to enhance our quality of life and preserve our environment for existing and future generations."

Network of Early-Career Sustainable Scientists & Engineers (NESSE)

URL: <http://www.sustainablechemists.org>

From their website: "We are a new generation of scientists and engineers using collaborative

and green approaches to science and technology to achieve a prosperous and sustainable future for all."

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